

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P345388

Luminaire Tested: **PR4FS24D010 PR4M24WD8FSBZ 4000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD8FSBZ 4000Lm3000K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2904.0 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.57
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

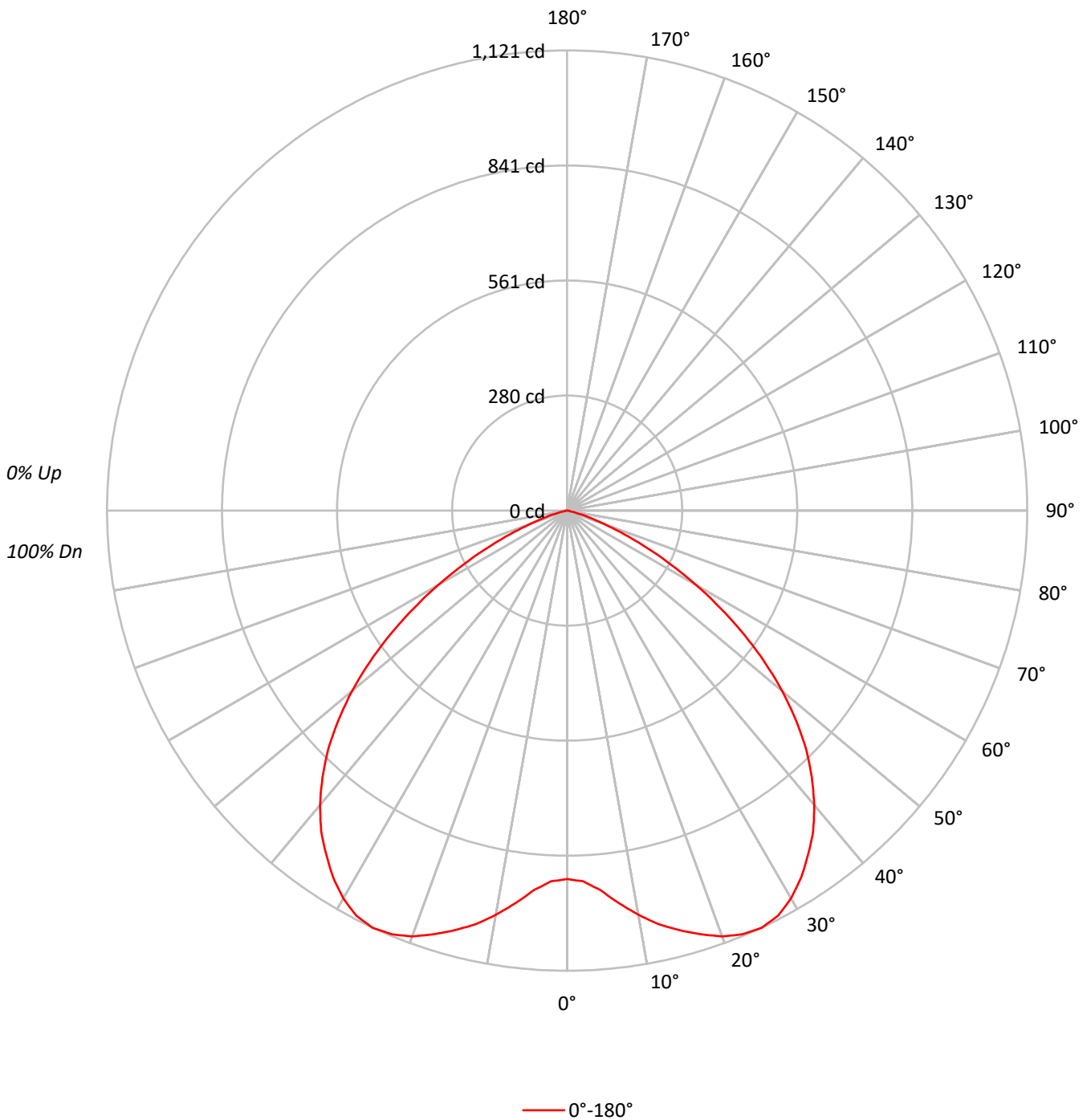
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	78504
5°	81473
10°	88783
15°	95834
20°	102754
25°	108219
30°	110182
35°	109290
40°	106944
45°	101880
50°	93146
55°	80199
60°	63485
65°	44085
70°	25012
75°	10274
80°	2166
85°	4315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.1
10°-20°	300.9	10.4
20°-30°	514.6	17.7
30°-40°	639.2	22.0
40°-50°	631.0	21.7
50°-60°	468.1	16.1
60°-70°	216.2	7.4
70°-80°	39.6	1.4
80°-90°	3.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	906.5	31.2
0°-40°	1545.7	53.2
0°-60°	2644.7	91.1
0°-90°	2904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2904.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	898	
5°	928	91
15°	1058	301
25°	1121	515
35°	1024	639
45°	824	631
55°	526	468
65°	213	216
75°	30	40
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	897.5
2.5°	904.0
5°	927.9
7.5°	964.8
10°	999.6
12.5°	1032.2
15°	1058.3
17.5°	1082.2
20°	1103.9
22.5°	1117.0
25°	1121.3
27.5°	1112.6
30°	1090.9
32.5°	1060.5
35°	1023.5
37.5°	984.4
40°	936.6
42.5°	882.3
45°	823.6
47.5°	756.2
50°	684.5
52.5°	606.3
55°	525.9
57.5°	443.3
60°	362.9
62.5°	284.7
65°	213.0
67.5°	149.9
70°	97.8
72.5°	58.7
75°	30.4
77.5°	10.9
80°	4.3
82.5°	4.3
85°	4.3
87.5°	2.2
90°	0.0

(END OF REPORT)